

D 2. (Amended) The interface device (IM) according to claim 1, wherein said interface device (IM) includes a CTI call handling device (CTICH) adapted to receive from said CTI server means (CTS) a CTI call handling message (CTICHIN), and to perform on a call associated with said CTI call handling message (CTICHIN) at least one CTI call service scenario (CSCEN1).

bx 3. (Amended) The interface device (IM) according to claim 2, wherein said CTI call handling device (CTICH) is further adapted to generate, upon performing said at least one CTI call service scenario, at least one returning CTI call handling message (CTICHOUT2) for delivery to said CTI server means (CTS).

4. (Amended) The interface device (IM) according to claim 2, wherein said CTI call handling device (CTICH) is further adapted to generate, upon performing said at least one CTI call service scenario (CSCEN1), at least one service request control message (SCRM1) for delivery towards said service switching function device (SSF) within said network switch (SSP).

5. (Amended) The interface device (IM) according to claim 1, wherein said interface device (IM) includes a mapping device (MD) adapted to receive from said service switching function device (SSF) within said network switch (SSP) a public switching call handling

AMENDMENT UNDER 37 C.F.R. § 1.111  
Application No. 09/346,930

message (PSCHin), and to perform on a call associated with said public switching call handling message (PSCHIN) at least one public switching call service scenario (SCEN1).

6. (Amended) The interface device (IM) according to claim 5, wherein said mapping device (MD) is further adapted to generate, upon performing said at least one public switching call service scenario (SCEN1), at least one returning public switching call handling message (PSCHOUT1) for delivery to said service switching function device (SSF) within said network switch (SSP).

7. (Amended) The interface device (IM) according to claim 5, wherein said mapping device (MD) is further adapted to generate, upon performing said at least one public switching call service scenario (SCEN1), at least one control message (CM1) for delivery towards said CTI server means (CTS).

8. (Twice Amended) The interface device (IM) according to claim 5, wherein said CTI call handling device (CTICH) is further adapted to receive from said mapping device (MD) a mapping device message (CM1;CMn+1), and to perform, on a particular call associated to said mapping device message, at least one other CTI call service scenario (CSCEN1 + 1; CSCEN1 + k).

AMENDMENT UNDER 37 C.F.R. § 1.111  
Application No. 09/346,930

1) 9. (Amended) The interface device (IM) according to claim 8, wherein said CTI call handling device (CTICH) is further adapted to generate, upon performing said at least one other CTI call service scenario (CSCENI+1; CSCENI+k), at least one other returning CTI call handling message (CTICHOUT1 ;CTICHOUT1') for delivery to said CTI server means (CTS).

2) 10. (Amended) The interface device (IM) according to claim 8, wherein said CTI call handling device (CTICH) is further adapted to generate, upon performing said at least one other CTI call service scenario (CSCENI+ 1), at least one other service request control message (SCRMI+1) for delivery towards said mapping device (MD).

3) 11. (Twice Amended) The interface device (IM) according to claim 5, wherein said mapping device (MD) is further adapted to receive from said CTI call handling device, a CTI call handling device message (SCRM1; SCRMI+1), and to perform on a specific call associated to said CTI call handling device message (SCRM1; SCRMI+1), at least one other public switching call service scenario (SCENn+1; SCENn+m).

4) 12. (Amended) The interface device (IM) according to claim 11, wherein said mapping device (MD) is further adapted to generate, upon performing said at least one other public switching call service scenario (SCENn+1; SCENn+m), at least one other returning public switching call handling message (PSCHOUT3; SCHOUT3') for delivery towards said service switching device (SSF).

13. (Amended) The interface device (IM) according to claim 11, wherein said mapping device (MD) is further adapted to generate, upon performing said at least one other public switching call service scenario (SCEN<sub>n+1</sub>), at least one other control message (CM<sub>n+1</sub>) for delivery towards said CTI call handling device (CTICH).

14. (Amended) The interface device (IM) according to claim 2, wherein said CTI call handling device (CTICH) is further adapted to

- determine the value of the CTI call attributes of said call, upon receiving said CTI call handling message (CTICHIN)
- determine at least one updated value of the CTI call attributes of said call, upon performing said at least one CTI call service scenario (CSCEN1).

15. (Amended) The interface device (IM) according to claim 5, wherein said mapping device (MD) is further adapted to

- determine the value of the public switching call attributes of said call, upon receiving said public switching call handling message (PSCHIN)
- determine at least one updated value of the CTI call attributes of said call, upon performing said at least one public switching call service scenario (SCEN1).

16. (Amended) The interface device (IM) according to claim 8, wherein said CTI call handling device (CTICH) is adapted to

- determine the value of the CTI call attributes of said particular call, upon receiving said mapping device message
- determine at least one updated value of the CTI call attributes of said particular call, upon performing said at least one other CTI call service scenario.

17. (Amended) The interface device (IM) according to claim 11, wherein said mapping device (MD) is further adapted to

- determine the value of the public switching call attributes of said specific call, upon receiving said CTI call handling device message
- determine at least one updated value of the public switching call attributes of said specific call, upon performing said at least one other public switching call service scenario.

18. (Amended) The interface device (IM) according to claim 14, wherein said CTI call handling device (CTICH) is further adapted to receive from said CTI server means (CTS) a succession of incoming CTI call handling messages including said CTI call handling message (CTICHIN),

said CTI call handling device (CTICH) further includes first selection means (SM1) adapted to receive an incoming CTI call handling message of said succession, and to forward said incoming CTI call handling message to a CTI call service scenario device of a first plurality

of CTI call service scenario devices (CSCEN1,...,CSCENI) included within said CTI call handling device (CTICH), each of said CTI call service scenario devices of said first plurality being adapted to perform a distinct CTI call service scenario,

1) said CTI call service scenario device of said first plurality is thereby selected by said first selection means (SM1) based upon at least one value of the CTI call attributes of the call associated to said incoming CTI call handling message.

19. (Amended) The interface device (IM) according to claim 15, wherein said mapping device (MD) is further adapted to receive from said service switching function device (SSF), a succession of incoming public switching call handling messages including said public switching call handling message (PSCHIN),

2) said mapping device (MD) further includes second selection means (SM2) adapted to receive an incoming public switching call handling message of said succession, and to said incoming public switching call handling message to a public switching call service scenario device of a second plurality of public switching call service scenario devices (SCEN1,...,SCENn) included within said mapping device, each of said public switching call service scenario devices of said second plurality being adapted to perform a distinct public switching call service scenario,

said public switching call service scenario device of said second plurality is thereby selected by said second selection means (SM2) based upon at least one value of the public

AMENDMENT UNDER 37 C.F.R. § 1.111  
Application No. 09/346,930

switching call attributes of the call associated to said incoming public switching call handling message.

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20. (Amended) The interface device (IM) according to claim 16, wherein  
said CTI call handling device (CTICH) is further adapted to receive a succession of  
incoming mapping device messages including said mapping device message,  
said CTI call handling device (CTICH) further includes a third selection means (SM3)  
adapted to an incoming mapping device messages of said succession, and to forward said  
mapping device message to a CTI call service scenario device of a third plurality of CTI call  
service scenario devices (CSCENI+1,...,CSCENI+k) included within said CTI call handling  
device (CTICH), each of said CTI call service scenario devices of said third plurality being  
adapted to perform a distinct CTI call service scenario,  
said CTI call service scenario device of said third plurality is thereby selected by said  
third selection means (SM3) based upon at least one value of the CTI call attributes of the call  
associated to said incoming mapping device message.

21. (Amended) The interface device (IM) according to claim 17, wherein  
said mapping device (MD) is further adapted to receive a succession of incoming CTI  
call handling device messages, including said CTI call handling device message,  
said mapping device (MD) further includes fourth selection means (SM4) adapted to  
receive an incoming CTI call handling device message of said succession and to forward said

CTI call handling device message to a public switching call service scenario device of a fourth plurality of public switching call service scenario devices (SCEN<sub>n+1</sub>,...,SCEN<sub>n+m</sub>) included within said mapping device, each of said public switching call service scenario devices of said fourth plurality being adapted to perform a distinct public switching call service scenario, said public switching call service scenario devices of said fourth plurality is thereby selected by said fourth selection means (SM4), based upon at least one value of the public switching call attributes of the call associated to said incoming CTI call handling device message.

22. (Twice Amended) The interface device (IM) according to claim 20, wherein the CTI call service scenario's performed by the CTI call service scenario devices of said first plurality are substantially different from the CTI call service scenario's performed by the CTI call service scenario devices of said third plurality.

23. (Twice Amended) The interface device (IM) according to claim 21, wherein the public switching call service scenario's performed by the public switching call service scenario devices of said second plurality (SCEN<sub>1</sub>,..., SCEN<sub>n</sub>) are substantially different from the public switching call service scenario's performed by the public switching call service scenario devices of said fourth plurality (SCEN<sub>n+1</sub>,...,SCEN<sub>n+m</sub>).



9 24. (Amended) The interface device (IM') according to claim 1, wherein said interface [means] device (IM') is adapted to communicate between a plurality of service switching function devices (SSF, SSF1, SSF2, SSF3) including said service switching function device (SSF), and said CTI server means (CTS), each of said service switching function devices having a service switching functionality.

25. (Amended) The interface device (IM') according to claim 1, wherein said interface device (IM') is adapted to communicate between said service switching function device (SSF) and a plurality of CTI server means (CTS, CTS1, CTS2), including said CTI server means (CTS).

Sub 2 26. (Amended) An apparatus (A) for providing a service to at least one customer (C), said apparatus comprising:  
a computer telephony integration (CTI) server means (CTS);  
a network switch (SSP) including a service switching function device (SSF) having a service switching functionality;  
an application programming interface (API) coupling said CTI server means (CTS) to an executable means (EM1,...,EM5), said executable means being adapted to execute said service;  
and

AMENDMENT UNDER 37 C.F.R. § 1.111  
Application No. 09/346,930

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interface means (IM) coupled between said network switch (SSP) and said CTI server means (CTS), said interface means (IM) being adapted to communicate between [a] said service switching function device (SSF) of said network switch (SSP) and said CTI server means (CTS).

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28. (Amended) The apparatus according to claim 26, wherein said apparatus further comprises at least one other service switching function device (SSF1, SSF2, SSF3) having a service switching functionality and being coupled to said interface means (IM').

29. (Amended) The apparatus according to claim 26, wherein said apparatus further comprises at least one other CTI server means (CTS1, CTS2) coupled to said interface means (IM').